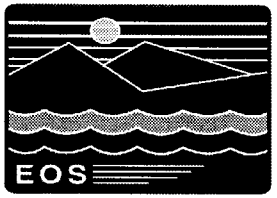

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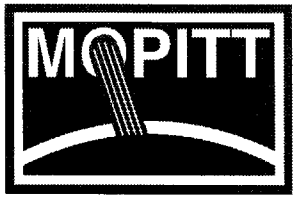
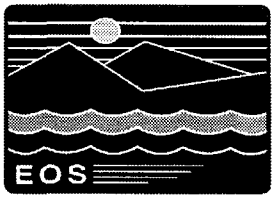


CURRENT EVENTS

- MOPITT instrument is presently at David Florida Laboratories (Ottawa)
  - EMC testing this week
  - Vibration testing next week
- Expected at University of Toronto calibration facility 15th April, 1997
- Contract discussions for MOPITT-A (aircraft version) are in progress
- Discussions on validation and response to NASA NRA also in progress
- MATR flights due Sept. 1997 on DOE Citation from Las Vegas
- Software development is “on track”



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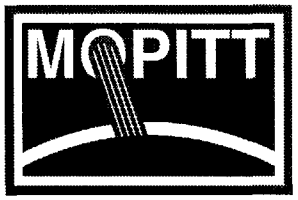
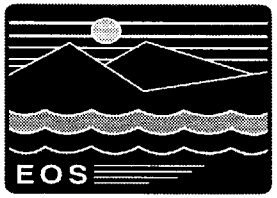


PROGRAM ISSUES

- Schedule
  - Test schedule is marginal for effective instrument calibration. Tests have been given 1,2,3 priorities to assist in identifying critical tests
  - Science return must be protected even under heavy schedule pressure
- Backup Plans
  - Backup plans have been submitted (see separate presentation).
    - Effort cannot be "turned on" instantaneously



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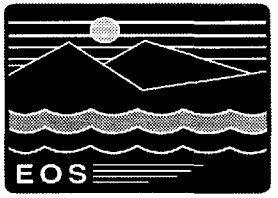
INSTRUMENT ISSUES

- The Instrument appears to be mostly OK!
- Scan motors have been a problem
  - Technically, issue has been solved
  - Risk level has increased, initiated analysis to see whether registration, etc can be realistically derived on-orbit
- Port cover motors also a problem
  - Technically, issue has been solved
  - Risk level increased, increased reluctance to re-close instrument doors (already very reluctant)
- Optical balance in modulators
  - Initial tests show similarity to engineering model, but no improvement.
  - Need to determine drift rate of imbalance and likely impact on data quality.



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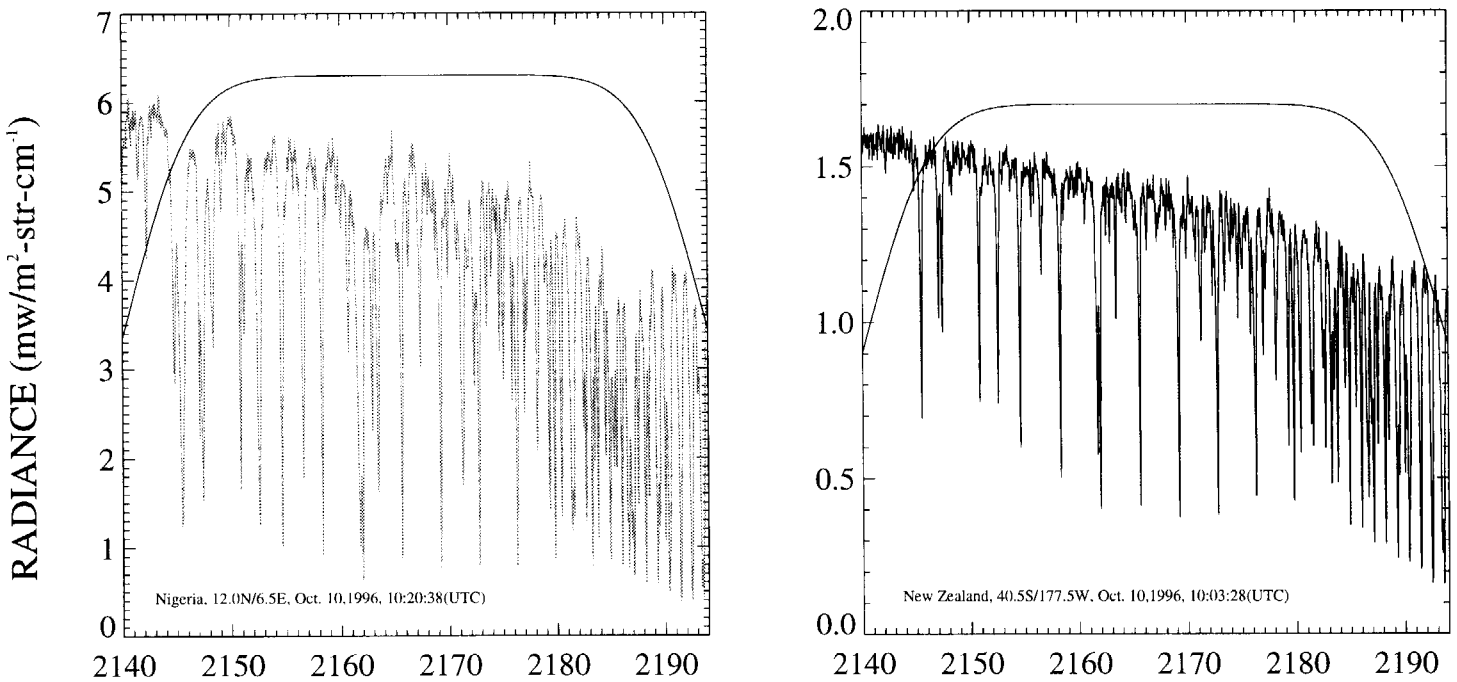
TESTING ISSUES

- Test Schedule is very tight - no margin for error or problems
- Test of (un)polarization proving very challenging, need to eliminate more artifacts from the test set-up to get reliable results
- Spectral test also challenging, success in getting some data at 4.7μm, but more work needed for 2.4μm band.
- Attempting to speed up FOV tests which take longest time, but scan mirror problems focus attention on this area.

MOPITT

IMG High Resolution Spectra in MOPITT Thermal Band



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Polarisation Effects at MCS Output